

Revision Date 12-Aug-2015

Revision Number 2

1. IDENTIFICATION

Product Identifier**Product Name** CAST IRON**Other means of identification****Product Code(s)** 10095
Product Type Polyester TGIC**Recommended use of the chemical and restrictions on use****Recommended Use** Industrial Coating. **Uses advised against** No information available
Details of the supplier of the safety data sheet**Supplier Address**
The Eastwood Company
263 Shoemaker Road
Pottstown, PA 19464**Phone:** 800-343-9353**Emergency Contact Number** CHEMTREC (800) 424-9300

2. HAZARDS IDENTIFICATION

Classification**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation	Category 1
Skin Sensitization	Category 1
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

Label elements**Emergency Overview****Signal Word** Danger**Hazard Statements**Causes serious eye damage
May cause an allergic skin reaction
May cause genetic defects
May cause cancer



Appearance Powder

Physical State Solid/Powder

Odor None

Precautionary Statements - Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Contaminated work clothing should not be allowed out of the workplace
 Wear protective gloves
 Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention
 Specific treatment (see Section 4 on this SDS)
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor/physician
 IF ON SKIN: Wash with plenty of soap and water
 If skin irritation or rash occurs: Get medical advice/attention
 Wash contaminated clothing before reuse

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Fine dust dispersed in air, in the presence of an ignition source, is a potential explosion hazard
 Dust may be irritating to eyes, nose, throat

Other Information

Unknown acute toxicity 1.44003 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Components	CAS-No	Weight %	Trade Secret
Barium sulfate	7727-43-7	10-30	*
TGIC/1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris(oxiranylmethyl)-	2451-62-9	1.0-10	*
Trade Secret	139-13-9	1-5%	*
Titanium Dioxide	13463-67-7	1-5%	*
Aluminum	7429-90-5	1-5%	*
Carbon black	1333-86-4	<0.5%	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.
 Consult a physician.

Skin Contact	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. In the case of skin irritation or allergic reactions see a physician.
Inhalation	Move to fresh air.
Ingestion	None under normal use. Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical or CO₂ Foam

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical

Fine dust dispersed in air may ignite. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Explosion Data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Use NIOSH/MSHA approved respirators if OSHA PEL is exceeded. Use impervious glove and body-covering clothing. Use side-shielded safety glasses or goggles.

Environmental Precautions

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Cleaning Up Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment should be avoided. Use non-sparking tools and equipment. Pick up and transfer to properly labeled containers. Dispose of according to local and regional authority requirements.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe dust. Avoid dust formation. Do not ingest.

Conditions for safe storage, including any incompatibilities

Storage Store in a dry, air conditioned place below 80F. Keep container tightly closed. Store in

accordance with local regulations. Store in original container.

Incompatible Products Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Components	ACGIH TLV	OSHA PEL	NIOSH IDLH
Barium sulfate 7727-43-7	TWA: 5 mg/m ³	TWA: 15 mg/m ³ TWA: 5 mg/m ³ (vacated) TWA: 10 mg/m ³ (vacated) TWA: 5 mg/m ³	TWA: 10 mg/m ³ TWA: 5 mg/m ³
TGIC/1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris(oxiranylmethyl)- 2451-62-9	TWA: 0.05 mg/m ³	-	-
Titanium Dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m ³ (vacated) TWA: 10 mg/m ³	IDLH: 5000 mg/m ³
Aluminum 7429-90-5	TWA: 1 mg/m ³	TWA: 15 mg/m ³ TWA: 5 mg/m ³ (vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³
Carbon black 1333-86-4	TWA: 3 mg/m ³	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Avoid contact with eyes. Eye protection.

Skin and Body Protection Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Solid/Powder	Odor	Odorless
Appearance	Powder	Odor Threshold	No data available
Color	No information available		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available on mixture	
Melting point/freezing point		
Boiling Point/Range	No information available on mixture	
Flash Point	No information available on mixture	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper explosive (flammability) limit:	70 g/m ³	
Lower explosive (flammability)	30 g/m ³	

limit:	
Vapor pressure	Negligible
Vapor Density	No information available on mixture
Specific Gravity	1.2-1.8
Water Solubility	Immiscible in water
Solubility in other solvents	No information available on mixture
Partition coefficient	No information available
Autoignition Temperature	
Decomposition Temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available on mixture
Explosive Properties	No information available
Oxidizing Properties	No information available

Other Information

Softening Point	No information available on mixture
% Solids	100

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Excessive heat.

Incompatible Materials

Strong oxidizing agents, strong acids, and strong bases.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors. Upon heating, may release oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Substances which cause concern for man owing to possible mutagenic effects but for which the available information is not adequate for making a satisfactory assessment.

Inhalation

May cause irritation of respiratory tract.

Eye Contact

Contact with eyes may cause irritation.

Skin Contact

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Repeated exposure may cause skin dryness or cracking. May cause irritation.

Ingestion

Not an expected route of exposure. May be harmful if swallowed.

Components	LD50 Oral	Dermal LD50	Inhalation LC50:
TGIC/1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris(oxiranylmethyl)-2451-62-9	= 188 mg/kg (Rat)	-	-
Trade Secret 139-13-9	= 1100 mg/kg (Rat)	-	-
Titanium Dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
Carbon black 1333-86-4	> 15400 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms

No information available on mixture.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause sensitization of susceptible persons.
Mutagenic Effects No information available on specific mixture.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Components	ACGIH	IARC	NTP	OSHA
Trade Secret 139-13-9	-	Group 2B	Reasonably Anticipated	X
Titanium Dioxide 13463-67-7	-	Group 2B	-	X
Carbon black 1333-86-4	A3	Group 2B	-	X

Reproductive Toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Chronic Toxicity Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. Experiments have shown reproductive toxicity effects on laboratory animals. See Section 11 for additional Toxicological Information.
Aspiration Hazard No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 2,108.00
ATEmix (inhalation-dust/mist) 5.96

12. ECOLOGICAL INFORMATION

Ecotoxicity

8.0678042% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and Degradability

No information available.

Bioaccumulation/ Accumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging Do not re-use empty containers.

Components	California Hazardous Waste Status
Aluminum 7429-90-5	Ignitable

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA 8(b) All components are listed or exempt
DSL/NDSL All components are listed or exempt

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Components	Weight %	SARA 313 - Threshold Values %
Barium sulfate - 7727-43-7	10-30	1.0
Trade Secret - 139-13-9	1-5%	0.1
Aluminum - 7429-90-5	1-5%	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

Components	California Prop. 65
Trade Secret - 139-13-9	Carcinogen
Titanium Dioxide - 13463-67-7	Carcinogen
Carbon black - 1333-86-4	Carcinogen

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number No data available

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health Hazard 2	Flammability 1	Instability 0	Physical and Chemical Hazards -
<u>HMIS / WHMIS</u>	Health Hazard 2	Flammability 1	Physical Hazards 0	Personal Precautions X

Revision Date 12-Aug-2015

Revision Note
No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, and transportation.

End of SDS